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WM. FRANK.

PUBLIC LEDGER.

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The French Cable.

From the Boston Advertiser.] A small party of scientific gentlemen, members of the American Association closed its session at Salem last week, received and accepted an invitation on Thursday, 26th instant, to visit the cable Thursday, 26 h instant, to visit the cable office in Duxbury. From Boston to Kingston station, by rail, thirty-three miles, thence by coach five miles, brought the party to the landing. In an old but well-preserved clapboard mansion of that quaint old town were found the head-quarters of this new and wonderful highway. The visitors were cordially welcomed by the manager, Mr. Brown, and were at once brought into the presence of the flitting, flame, like image which indithe flitting, flame-like image which indicated, in symbols on a graduated screen, cated, in symbols on a graduated screen, the thoughts working at that instant on the other side of the Atlantic. Interpreting the fitful tremor of the image, or line of light, one inch in length and one-eighth of an inch in breadth, the youthful interpreter, who did not look the wizard that he was, calmly read, for transcription by his assistant, a message in which occurred at intervals the words "New Orleans"— "Citizen"—etc., etc. While inspecting the apparatus, the members of the party received the following message fresh from France, sent expressly to them:

To Duxbury, from Brest, time 5:20 p.m. (Paris time.) "The company present their compli-ments to the gentlemen assembled at Boston, and hope to be able to send them news of the great international boat-race

that will be gratifying to both nations."

The usual rate of transmission is about The usual rate of fransmission is about ten or twelve words per minute. Looking for the mechanism by which these wonderful results were obtained, the inquiring visitors observed on their right, placed on a marble pedestal, a medium sized spool of silk-colored copper wire, said to consist of several thousand turns or convolutions, in the center of which spool, suspended by a single silk-worm. speed, suspended by a single silk-worm libre, was a minute mirror attached to a ttle magnet made from a piece of watchspring. From a lamp properly placed and shaded a beam of light was thrown upon this mirror, and from the mirror was reflected two handred times enlarged was reflected two handred times enlarged upon the graduated screen in front of the interpreter, the flame-like image already mentioused. In transmitting from Duxbury to Brest, the operator with his right hand makes use of two keys or springs, one of which being pressed, causes at Brest a deflection in a similar mirror, sending the message flame to the right, while pressing the other key deflects the mirror at Brest in the opposite direction. while pressing the other key deflects the mirror at Brest in the opposite direction, sending the image flame to the left. Its indications are thus interpreted: a jerk or flitting to the right and then once to the left denotes the letter a; a fitting once to the right, and then three times to the left denotes the letter b; and thus letter by letter the words are spelled. Passing to an adjoining room, the delicate instruments used for testing the electric conduction of the cable are shown—among which are condensers and batteries, rheostats and shunts, bridges, switches and plugs, and, crowning all, the wonderful astatic galvanemeter, of Sir Wm. Hamilton. But possibly it would weary our readers to tail of ohms and megohus, farads and megafarads, and megohus, farads and megafarads, volts and microvolts, and all the termi-WARD, J. U., Unothing, etc., Resident Partner Garchweite Lewick Stuart, 271 Main
WALTER, JUS., Droggist, 184 Main, between Washington and Peolar
YOUNG & BRUTHER, Bookpellers and
Stationers, Odd Fellows' Hall, 256 Main.
WOUNG, A. W. & CO., Bookpellers, Stathoners, Printers and Bineers, Rig. Main,
Short month which has elapsed since this
ain. Brazil, Russia, In
countries.

Civil war is threatene
The Governor and Lieute
(both Radical carpet-bag
into a fight, and their resp
short month which has elapsed since this

table was first committed to the embraces of Old Ocean—as is evinced by the fact that soon after it was laid the insulation resistance rose to 2300 megohms, and has since been gradually increasing until it is now 5000 megohms per nautic-1 mile. This improvement in the insulation of the deep-sea cable is believed to be main-This improvement in the insulation of the deep-sea cable is believed to be mainly due to the coldness or diminished temperature to which it is subjected at great ocean depths. The insulation re- In the cabinet of Physiological Anatomy, electrician—what is a megohm? he might with propriety be told that it is a million ohms. Should he still further inquire— and what is an ohm? a suitable reply would be—it is the yardstick of the electrician by which he measures the electric condition of conductors, and which may be represented by a round wire of pure copper one-twentieth of an inch in diaeter and 240 feet in length, at the temperature of sixty degrees of the Fahren-heit thermometer; while a megohm, by which be measures the resistance of in-sulators, is a unit, the length of which is a million times as great. After being duly initiated into the interesting myateries of cable working and cable book-keeping, the members of the party partook of a sumptuous repast, given by the gentleman in charge. During this re-past they were agreeably entertained by thrilling accounts of various incidents and hairbreadth escapes during the eventful voyage in laying the cable. Mr. Brown and Mr. Gaines are gentlemen of telegraph construction and maintenance company, has assisted in laying most of the important cables, from the first one that crossed the channel, to this last great triumph. The number of persons engaged in conducting the affairs of the office, and of the land lines, are about a dozen in all; some of them on duty at all hours of the day long experience in connection with the Malta and Alexandria cables. Mr.

(France), so that a telegram dated, like the one given above, at 5 o'clock and twenty minutes p.m., Paris time, is really sent at 12 o'clock and twenty minutes p. m., Duxbury or Boston time. It may be deemed worthy of remark that in the transmission of messages for the public the time recorded is that of Paris, in business for the service of the cable company, Greenwich time—the same as on the original cable between Ireland and Newfoundland—and in the local busi-ness of the Duxbury office, Boston, times. After cordially thanking the courteous and efficient manager and his associates, the gentlemen constituting the party ter-minated their long to be remembered visit at the Cable House in Duxbury.

A Great Invention.

An invention is announced which, if successful, will be of inestimable importance in the affairs of newspapers. An exchange says M. Gensoni, an ingenious Frenchman, has invented a "stenographic press." The reporter sits at something like the keyboard of a pianoforte, and by applying his fingers to the keys, prints the words as they fall from the lips of the speaker, syllable by syfa-ble, on a strip of paper which rolls along underneath. When we say this we do not, of course, mean that the words are printed in letters. The key-board ap-pears to be divided into three parts of eight keys each. The left side, worked by the fourfingers of the left hand, prints oy the four ingers of the left hand, prints signs which represent initial consonants; the right, worked by the fingers of the right hand, prints final consonants; and the middle, acted on by the two thumbs, prints the medium vowels. We gather that something like a problem. that something like a phonetic system of signs is employed. A few months' prac-tice is said to enable any operator to follow the most fluent speaker with ease, We ought to say that M. Gensoui's system renders it nunecessary to transcribe the copy. Just as with the phonetic sys-tem, if legibly written the compositor can set up the speech in common type from the printed slip furnished by the machine. As to the comparative ease of writing characters with a pen, and print-ing them in the way here described, we can give no opinion.

The lace makers in France, it is estimated, are women and girls, and num-ber about 200,000. Their wages are on the average of twenty-four cents per day; me who are particularly skillful and industrious earn sixty-seven cents for ten bours' hard work. Lace makers are mostly peasant women, who work in their own houses. The raw materials used in the manufacture of lace in France are spun especially for it. The price of the raw material amounts to from six to twenty per cent. of the value of the production. Pillow lace is made on a sort of frame, light and simple in construction, and is held on the knees of the lace maker. Lace generally takes the name of the town in which it is pro-duced. The annual production of lace in France is valued at \$19,200,000, and is sold to the United States, Great Britain. Brazil, Russia, India and other

The Governor and Lieutenant Governor wife, at (both Radical carpet-baggers), have got into a fight, and their respective factions death.

An Important Discovery.

A correspondent of the London Athe nœum, writing from Naples, gives some interesting information respecting the means employed by Professor Abbate, of that city, for preserving the human body.

sistance of the portion of the cable connecting Duxbury and St. Pierre is much
less, namely, 1500 megohus per nautical
mils. If one would inquire of a cable

crument refused to purchase the secret, which died with Segato. His preparations, I repeat, were only portions of the body, whereas that which is now being exhibited at Naples, in the ex-convent of Santa Maria della Nuova, is the entire body of a youth of seventeen years of age, who died of phthisis about the end of last January. For five months, therefore, it has resisted the action of a very variable atmosphere. The features, the integrity of the form, are perfectly preserved as they were at the moment of death. The nails have a roseate hue; there is no odor of any kind, and the flesh has the odor of any kind, and the less has the hardness almost of marble. To this let it be added that the hair adberes so tena-ciously to the head that it is impossible to remove it, of course without violence. The operation of embalming or petrifying is effected in a few hours, without the necessity of removing the dress; indeed, another body has been petrified, according to the same system, without taking off the dress, and even preserving the gloves on. "We know," says a medical gentleman, not an Italian, to whom I am indebted for these details, "that some

dezen in all; some of them on duty at all hours of the day and night—for it that is, in preserving meat fresh. Abbust to remembered that when it is midble asserts be has succeeded completely. There are difficulties in this special appropriate that is the special appropriate that is the special appropriate that the special appropriate the special and the special appropriate the special appropriate the special appropriate the special and the sp plication of it which would not present themselves in the petrifaction of human bodies, such as the danger of introducing substances injurious to health, or affecting the taste, the appearances, or the nutritive qualities of the meat. All these difficulties Abbate declares he has overcome, and it is a known fact that a first-rate house in Italy, whose commer-cial relations with the Americans are considerable, has already made offers to Abbate on the subject. If it be proved by experience to be true that the wholesome food of man, which is now thrown away in vast districts as utterly unavailable, or is only melted down for the sake of the fat, can by simple and inexpensive means be exported to Europe fresh and good, an inestimable boon will have been conferred upon humanity. This eur professor asserts he can do, and as he already has done so much, surely his system deserves the attentive examinalife Abbate has no intention of making known the secret of his discovery, but he is prepared to visit any part of the world

which he may be requested to visit, and show the results of his invention. A Trotting Match.

At a certain evening party, a haughty young beauty turned to a student who stood near her, and said: "Cousin John, I understand your ec-

centric friend L- is here. Do bring him here and introduce him to me. John went in search of his friend and at length found him lounging on a sofa.
"Come L.—," said he, "my beautiful cousin Catharine wishes to be introduced

to you." Well, trot her cut, John," drawled John returned to his cousin and ad-

vised her to defer the introduction to a more favorable time, repeating the answer he had received.

wer he had received.

The beauty bit her lip, but the next moment said: "Well, never fear, I shall insist on being introduced."

After some delay L— was led up and the ceremony of introduction was performed. Agreeably surprised by the beauty and commanding appearance of Deanty and commanding appearance of Catherine, L.— made a profound bow; but instead of returning it, she stepped backward, and raising her glass surveyed him deliberately from head to foot; then, waving the back of her hand toward him,

"Trot him off, John; trot him off!

Some cruel children set fire to a cat at Eigin, Illinois, while the parents were at church. The cat ran under the barn, set it on fire, and it was destroyed, along with a valuable horse. The children, eight in number, fearing a whipping, ran off and took shelter in a dismal awamp near by and have not been seen or heard off since, netwithstanding the constant beating of tin pans and loud yells created to

The proprietor and clerk of Bradley's Hotel, Portland, Me., last Friday night, threw Patrick Murray down two flights of stairs, fracturing his skull in such a Civil war is threatened in Arkansas, had come from Halifax in search of his be Governor and Lieutenant Governor wife, and finding her at the hotel, in his endeavors to recover possession, met his death. The assailants have been arrested.

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perial Beauty - Her Luxuriant Tresses.

A correspondent of the Boston Post writes as follows: The Empress of Austria is enjoying

the invigorating air of the Tyrolee Alps Her health seems to be re established. A Russian lady belonging to the household of the Czarina has just related to me some interesting anecdotes of the Em-press Elizabeth, whom she used to see and converse with daily last year at the baths of the Kissengen. The Empress is averse to the Franco-American alliance, from a fear that the Emperor Na poleon may prevail on Francis Joseph to depart from the liberal policy of Von Buest. She is naturally joyous, but the misfortunes of her husband's relations, the political perturbations through which Austria has passed, and an intense sympathy with human suffering, have infused into her a passive strain. She has a keen sense of the beautiful, and paints and sings like a poet and an artist. The and sings like a poet and an artist. personal appearance of the Empress cor-responds with her delicate, loving, high-strung nature. Her tall form is beauti-fully moulded, her eyes are large and expressive, and speaks often things which, correctly, etiquette forbids her tengue to utter. Her complexion is exquisitely transparent. I am assured by her Russian admirer that her rich brown hair sweeps the ground when she lets it fall over her shoulders to dry in issuing from the bath. Last year at Kisissuing from the bath. Last year at kissengen, a barber, mistaking her for somebody else, as she was walking in the environs of the town, after bathing, offered her a large salary if she would go with him to Paris and London, and let him tell his customers that she was in the habit of using some capillary wash he sells. Bavarian girls, whatever way he the reason, have the fluest hair in Europe. There is in the town where the fair Austrian Empress passed her child-hoed, the monument of a girl who died of too much of it. It is stated in her epitaph that the nourishment of her body was absorbed by the capillary vessels. and that her hair in a short space of ten months grew, on its being shaved, to the extraordinary length of three yards.

A Western justice ordered a witness to come up and be sworn." He was informed that the person was deaf and dumb. "I don't care," said the judge, passionately, "whether he is or not. Here is the Constitution of the United States before me. It guarantees to every man the right of speech; and so long as have the honor of a seat on this bench it shall not be violated or invaded. What the Constitution guarantees to a man 'm bound be shall have."

An enthusiastic Yankee woman wishes to wipe out the defest of the Harvards by having a crew of American girls challenge an equal number of English girls

Since the completion of the Pacific railroad, California has been visited by eighteen United States Senators, and by members of Congress and State officials without number-all wise men from the East. And the cry is-still they come.

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22 by 23 inches, with
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